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## 2. DEVELOPING DEVICE, PROCESS CARTRIDGE AND ELECTROPHOTOGRAPHIC IMAGE FORMING DEVICE

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PROBLEM TO BE SOLVED: To execute the display of the residual quantity of developer being more desirable for a user by dividing an overlapping term into plural stages and gradually shifting weighing to detected value of a next developer residual quantity detection means from that of a former developer residual quantity detection means every stage.

SOLUTION: A developer quantity detection device is provided with the 1st developer residual quantity detection means and the 2nd developer residual quantity detection means and constituted so that the weighting is shifted to the detected value of the 2nd developer residual quantity detection means from that of the 1st developer residual quantity detection means. Then, the quantity of developer is detected by applying voltage to either a 1st electrode 81 or a 2nd electrode 82 being as measurement electrode members constituting a developer detection part 80 of the 2nd developer residual quantity detection means, inducing electrostatic capacity between both electrodes 81 and 82 and measuring the electrostatic capacity. Based on this detected information, the consumption of the developer is displayed. Thus, the user is urged to execute the exchange of a process cartridge or the supply of the developer.

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